

9



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/656,550	09/05/2003	Dirk Balfanz	D/A21241	8171

25453 7590 02/06/2007  
 PATENT DOCUMENTATION CENTER  
 XEROX CORPORATION  
 100 CLINTON AVE., SOUTH, XEROX SQUARE, 20TH FLOOR  
 ROCHESTER, NY 14644

EXAMINER
----------

SONG, HOSUK

ART UNIT	PAPER NUMBER
----------	--------------

2135

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	02/06/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

# Office Action Summary

Application No.

10/656,550

Applicant(s)

BALFANZ ET AL.

Examiner

HOSUK SONG

Art Unit

2135

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 05 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-77 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6, 10-15, 17, 18, 23-41, 46-57, 59-74, 76 and 77 is/are rejected.
- 7) ☒ Claim(s) 7-9, 16, 19-22, 42-45, 58, 75 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 10656550.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-6,10-15,17-18,23-41,46-57,59-74,76-77 are rejected under 35 U.S.C. 102(e) as being anticipated by Feldman et al(US 7,110,982).

Claims 1-3,10-15,17-18: Feldman disclose exchanging key commitment information over a preferred channel between a credential issuing device and a prospective member device to pre-authenticate prospective member device in (fig.23A and col.14-col.15,Table 2A). Feldman disclose receiving a public key from prospective member device and verifying public key with key commitment information in (Fig.23A, col.14,lines 29-39). Feldman disclose automatically provisioning prospective member device with a credential authorized by a credential issuing authority in (col.18,lines 33-40).

Claim 4: Feldman disclose credential is secret and communication channel is a secure communication channel in (fig.23A#2334).

Claim 5: Feldman disclose configuring credential issuing authority in (fig.23A).

Claim 6: Feldman disclose credential issuing device includes credential issuing authority in (col.18,lines 33-39).

Claims 23,25-28: Feldman disclose exchanging key commitment information over a preferred channel between a credential issuing device and a prospective member device to pre-authenticate prospective member device in (fig.23A and col.14-col.15,Table 2A). Feldman disclose receiving a public key from prospective member device and verifying public key with key commitment information in

(Fig.23A, col.14,lines 29-39). Feldman disclose automatically provisioning prospective member device with a credential authorized by a credential issuing authority in (col.18,lines 33-40).

Claim 24: Feldman disclose public key received over preferred channel in (fig.23A).

Claim 29: Feldman disclose prospective member device is selected from one or more of the group consisting of a computer in (fig.23A).

Claim 30: Feldman disclose secure credential infrastructure is a public key infrastructure ,credential issuing authority is a certification authority and credential is a public key certificate in (col.16,Table 2C).

Claim 31,37-39: Feldman disclose at least one port configured to establish a preferred channel and a key commitment receiver mechanism configured to receive key commitment information through at least one port in (fig.23A). Feldman disclose a key receiver mechanism configured to receive a public key and a pre-authentication mechanism configured to verify public key with key commitment information in (Fig.23A, col.14,lines 29-39). Feldman disclose a credential provisioning mechanism configured to be able to automatically provide a credential authorized by a credential issuing authority responsive to the pre-authentication mechanism in (col.18,lines 33-40).

Claim 32: Feldman disclose public key received over preferred channel in (fig.23A).

Clam 33: Feldman disclose a key-pair validation mechanism configured to establish proof that a prospective member device is in possession of a private key corresponding to public key in (col.14,lines 29-39).

Claim 34: Feldman disclose initialization mechanism configured to configure credential issuing authority in (col.3,lines 60-67;col.15,lines 13-21).

Claim 35: Feldman disclose credential issuing device comprises credential issuing authority in (col.17,lines 55-65).

Claim 36: Feldman disclose network device configuration mechanism configured to send network configuration information over preferred channel in (fig.23A).

Claim 40: Feldman disclose prospective member device is selected from one or more of the group consisting of a computer in (fig.23A).

Claim 41: Feldman disclose secure credential infrastructure is a public key infrastructure ,credential issuing authority is a certification authority and credential is a public key certificate in (col.16,Table 2C).

Claim 46: Feldman disclose at least one port configured to establish a preferred channel and a key commitment receiver mechanism configured to receive key commitment information through at least one port in (fig.23A). Feldman disclose a key receiver mechanism configured to receive a public key and a pre-authentication mechanism configured to verify public key with key commitment information in (Fig.23A, col.14,lines 29-39). Feldman disclose a credential provisioning mechanism configured to be able to automatically provide a credential authorized by a credential issuing authority responsive to the pre-authentication mechanism in (col.18,lines 33-40).

Claim 47,51-56,59: Feldman disclose exchanging key commitment information over a preferred channel between a credential issuing device and a prospective member device in(fig.23A and col.14-col.15,Table 2A). Feldman disclose receiving a public key from prospective member device and verifying public key with key commitment information in (Fig.23A, col.14,lines 29-39). Feldman disclose receiving a credential authorized by a credential issuing authority in (col.18,lines 33-40).

Claims 48,49: Feldman disclose establishing proof that credential issuing device is in possession of a private key corresponding to public key in (col.14,lines 29-39).

Claim 50: Feldman disclose secure credential infrastructure is a public key infrastructure, credential issuing authority is a certification authority and credential is a public key certificate in (col.12,lines 28-36).

Claim 57: Feldman disclose key commitment information comprises a function of public key in (col.14,lines 38-40).

Claim 60: Feldman disclose prospective member device is selected from one or more of the group consisting of a computer in (fig.23A).

Claims 61-64: Feldman disclose exchanging key commitment information over a preferred channel between a credential issuing device and a prospective member device in(fig.23A and col.14-col.15,Table 2A). Feldman disclose receiving a public key from prospective member device and verifying public key with key commitment information in (Fig.23A, col.14,lines 29-39). Feldman disclose receiving a credential authorized by a credential issuing authority in (col.18,lines 33-40).

Claim 65: Feldman disclose key commitment information comprises a function of public key in (col.14,lines 38-40).

Claim 66: Feldman disclose prospective member device is selected from one or more of the group consisting of a computer in (fig.23A).

Claim 67,71-74,76: Feldman disclose at least one port configured to establish a preferred channel and a key commitment receiver mechanism configured to receive key commitment information through at least one port in (fig.23A). Feldman disclose a key receiver mechanism configured to receive a public key and a pre-authentication mechanism configured to verify public key with key commitment information in (Fig.23A, col.14,lines 29-39). Feldman disclose a credential provisioning mechanism configured to be able to automatically provide a credential authorized by a credential issuing authority responsive to the pre-authentication mechanism in (col.18,lines 33-40).

Claim 68: Feldman disclose establishing proof that credential issuing device is in possession of a private key corresponding to public key in (col.14,lines 29-39).

Art Unit: 2135

Claim 69: Feldman disclose a network interface configured to establish a communication channel with a credential issuing authority responsive to the key-pair validation mechanism in (fig.23A and col.12,lines 29-36).

Claim 70: Feldman disclose secure credential infrastructure is a public key infrastructure ,credential issuing authority is a certification authority and credential is a public key certificate in (col.16,Table 2C).

Claim 77: Feldman disclose prospective member device is selected from one or more of the group consisting of a computer in (fig.23A).

***Allowable Subject Matter***

Claims 7- 9,16,19-22,42-45,58,75 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.


***USPTO Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOSUK SONG whose telephone number is 5712723857. The examiner can normally be reached on mon-fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, KIM VU can be reached on 5712723859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2135

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
HOSUK SONG  
PRIMARY EXAMINER